

SEQUENCE LISTING

(1) GENERAL INFORMATION

- (i) APPLICANT: Billing-Medel, Patricia A.
Cohen, Maurice
Colpitts, Tracey L.
Friedman, Paula N.
Gordon, Julian
Granados, Edward N.
Hodges, Steven C.
Klass, Michael R.
Kratochvil, Jon D.
Roberts-Rapp, Lisa
Russell, John C.
Stroupe, Steven D.
- (ii) TITLE OF THE INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE BREAST
- (iii) NUMBER OF SEQUENCES: 22
- (iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: Abbott Laboratories
(B) STREET: 100 Abbott Park Road
(C) CITY: Abbott Park
(D) STATE: IL
(E) COUNTRY: USA
(F) ZIP: 60064-3500
- (v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Diskette
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: DOS
(D) SOFTWARE: FastSEQ for Windows Version 2.0
- (vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER:
(B) FILING DATE:
(C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: 08/742,067
(B) FILING DATE: 31-OCT-1996
- (viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: Becker, Cheryl L
(B) REGISTRATION NUMBER: 35,441
(C) REFERENCE/DOCKET NUMBER: 5995.US.P1
- (ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: 847/935-1729
(B) TELEFAX: 847/938-2623
(C) TELEX:
- (2) INFORMATION FOR SEQ ID NO:1:
- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 229 base pairs
(B) TYPE: nucleic acid

4696294680

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CGGCTCGAGC	TCTTAGGCTT	TGAAGCATT	TTGTNTGTGC	TCCCTGATCT	TCATGTCACC	60
ACCATGAAGT	TCTTAGCAGT	CCTGGTACTC	TTGGGAGTTT	CCATCTNTCT	GGTCTCTGCC	120
CAGAATCCGA	CAACAGCTGC	TNCAGCTGAC	ACGNATCCAG	CTACTGGTCC	TGCTGATGAT	180
GAAGCCCCTG	ANGCTGAAAC	CACTGCTGCT	GCNACCACTG	CGACCACTG		229

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 308 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

TAGGCTTTGA	AGCATTTTTG	TCTGTGCTCC	CTGATCTTCA	GGTCACCACC	ATGAAGTTCT	60
TAGCAGTCCT	GGTACTCTTG	GGAGTTTCCA	TCTTTCTGGT	CTCTGCCCAG	AATCCGACAA	120
CAGCTGCTCC	AGCTGACACG	TATCCAGCTA	CTGGTCCTGC	TGATGATGAA	GCCCCTGATG	180
CTGAAACCAC	TGCTGCTGCA	ACCACTGCGA	CCACTGCTGC	TCCTACCACT	GCAACCACCG	240
CTGCTTCTAC	CACTGCTCGT	AAAGACATTC	CAGTTTTACC	CAAATGGGTT	GGGGATCTTC	300
CGAATGGT						308

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 197 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

GTTTTACCCA	AATGGGTTGG	GGATCTCCCG	AATGGTAGAG	TGTGTCCCTG	AGATGGAATC	60
AGCTTGAGTC	TTCTGCAATT	GGTCACAACT	ATTCATGCTT	CCTGTGATTT	CATCCAACTA	120
CTTACCTTGC	CTACGATATC	CCCTTTATCT	CTAATCAGTT	TATTTTCTTT	CAAATAAAAA	180
ATAACTATGA	GCAACAT					197

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 482 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ix) FEATURE:

- (A) NAME/KEY: base_polymorphism
- (B) LOCATION: 54
- (D) OTHER INFORMATION: /note= "'K' represents a G/T polymorphism at this position"

(ix) FEATURE:

- (A) NAME/KEY: base_polymorphism
- (B) LOCATION: 312
- (D) OTHER INFORMATION: /note= "'Y' represents a C/T polymorphism at this position"

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

CGGCTCGAGC	TCTTAGGCTT	TGAAGCATT	TTGTCTGTGC	TCCCTGATCT	TCAGTCCACC	60
ACCATGAAGT	TCTTAGCAGT	CCTGGTACTC	TTGGGAGTTT	CCATCTTTCT	GGTCTCTGCC	120
CAGAATCCGA	CAACAGCTGC	TCCAGCTGAC	ACGTATCCAG	CTACTGGTCC	TGCTGATGAT	180
GAAGCCCCTG	ATGCTGAAAC	CACTGCTGCT	GCAACCACTG	CGACCACTGC	TGCTCCTACC	240
ACTGCAACCA	CCGCTGCTTC	TACCACTGCT	CGTAAAGACA	TTCCAGTTTT	ACCCAAATGG	300
GTTGGGGATC	TYCCGAATGG	TAGAGTGTGT	CCCTGAGATG	GAATCAGCTT	GAGTCTTCTG	360
CAATTGGTCA	CAACTATTCA	TGCTTCCTGT	GATTTCATCC	AACTACTTAC	CTTGCCTACG	420
ATATCCCCTT	TATCTCTAAT	CAGTTTATTT	TCTTTCAAAT	AAAAAATAAC	TATGAGCAAC	480
AT						482

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 553 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ix) FEATURE:

- (A) NAME/KEY: base_polymorphism
- (B) LOCATION: 543
- (D) OTHER INFORMATION: /note= "'R' represents an A/G polymorphism at this position"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GAATTCGGCT	CGAGCGGCTC	GAGCTCTTAG	GCTTTGAAGC	ATTTTTGTCT	GTGCTCCCTG	60
ATCTTCATGT	CACCACCATG	AAGTTCTTAG	CAGTCCTGGT	ACTCTTGGA	GTTTCCATCT	120
TTCTGGTCTC	TGCCCAGAAT	CCGACAACAG	CTGCTCCAGC	TGACACGTAT	CCAGCTACTG	180
GTCCTGCTGA	TGATGAAGCC	CCTGATGCTG	AAACCACTGC	TGCTGCAACC	ACTGCGACCA	240
CTGCTGCTCC	TACCACTGCA	ACCACCGCTG	CTTCTACCAC	TGCTCGTAAA	GACATTCCAG	300
TTTTACCCAA	ATGGGTTGGG	GATCTCCCGA	ATGGTAGAGT	GTGTCCCTGA	GATGGAATCA	360
GCTTGAGTCT	TCTGCAATTG	GTCACAACCT	TTCATGCTTC	CTGTGATTTC	ATCCAACCTAC	420
TTACCTTGCC	TACGATATCC	CCTTTATCTC	TAATCAGTTT	ATTTTCTTTC	AAATAAAAAA	480
TAACTATGAG	CAACAAAAAA	AAAAAAAAAA	AAAAAAAAAA	AAAAAAAAAA	AAAAAAAAAA	540
AARGGGCGGC	CGC					553

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

AGCTCGGAAT	TCCGAGCTTG	GATCCTCTAG	AGCGGCCGCC	GACTAGTGAG	CTCGTCGACC	60
CGGGAATT						68

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

AATTAATTCC	CGGGTCGACG	AGCTCACTAG	TCGGCGGCCG	CTCTAGAGGA	TCCAAGCTCG	60
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462969690

GAATTCCG

68

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

AGCGGATAAC AATTCACAC AGGA

24

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

TGTAAAACGA CGGCCAGT

18

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

ACTGCTCGTA AAGACATTCC

20

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

GGGACACACT CTACCATTCC

19

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

AAGCCCCTGA TGCTGAAACC

20

46TCTT "46029680

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

TGCAGAAGAC TCAAGCTGAT TCC

23

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

CCCAGTCACG ACGTTGTAAA ACG

23

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 27 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

GCGGCCGCCG GGACACACTC TACCATT

27

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 90 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Met	Lys	Phe	Leu	Ala	Val	Leu	Val	Leu	Leu	Gly	Val	Ser	Ile	Phe	Leu
1				5					10					15	
Val	Ser	Ala	Gln	Asn	Pro	Thr	Thr	Ala	Ala	Pro	Ala	Asp	Thr	Tyr	Pro
			20					25					30		
Ala	Thr	Gly	Pro	Ala	Asp	Asp	Glu	Ala	Pro	Asp	Ala	Glu	Thr	Thr	Ala
		35					40					45			
Ala	Ala	Thr	Thr	Ala	Thr	Thr	Ala	Ala	Pro	Thr	Thr	Ala	Thr	Thr	Ala
		50				55					60				
Ala	Ser	Thr	Thr	Ala	Arg	Lys	Asp	Ile	Pro	Val	Leu	Pro	Lys	Trp	Val
65					70					75					80
Gly	Asp	Leu	Pro	Asn	Gly	Arg	Val	Cys	Pro						
				85				90							

(2) INFORMATION FOR SEQ ID NO:17:

08962094-103197

(A) LENGTH: 39 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

(2) INFORMATION FOR SEQ ID NO:18:

(A) LENGTH: 39 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

(2) INFORMATION FOR SEQ ID NO:19:

(A) LENGTH: 21 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

(2) INFORMATION FOR SEQ ID NO:20:

(A) LENGTH: 21 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Ala Ala Pro Ala Asp Thr Tyr Pro Ala Thr Gly Pro Ala Asp Asp Glu
1 5 10 15
Ala Pro Asp Ala Glu
20

(2) INFORMATION FOR SEQ ID NO:21:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 8 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

Asp Tyr Lys Asp Asp Asp Asp Lys
1 5

(2) INFORMATION FOR SEQ ID NO:22:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Met His Thr Glu His
1 5 10 15
His His His His His
20

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